PROJECT DESCRIPTION I. GENERAL		Δ.	EQUIPMENT LIST (Con't) EQUIPMENT TO BE SUPPLIED BY S.H.A			PHASE CHART
·		ITEM NO.	DESCRIPTION	QUANTITY	C. EQUIPMENT TO BE REMOVED SHA Forces shall remove the controller and all auxilliary equipment from the controller	1 2 3 4 5 6 7 8 9 10 11 12 13 14 R R R R R R R R R R R R R R R R R R R
This project involves the reconstruction of an existing Traffic Control Signal with overhead interconnect at the intersection of US 13 (BUS.) (Fruitland Blvd) and Main Street in Wicomico County. The existing strain pole Traffic Signal shall be replaced with a new mast arm Traffic Signal Poles with a relocated ped phase on the north leg. Video detection along with countdown pedestrian signals shall be installed at this intersection. US 13 (BUS.) (Fruitland Blvd) is assumed to run a north-south direction.			GUIDE SHIELD ASSEMBLY	1 EA	and all auxilliary equipment from the controller cabinet. The cabinet and all other removed signal materials are to become the property of the contractor.	$(\mathbf{G})(G$
II. INTERSECTION OPERATION			(24"x51") pole mounted. M3-3 "SOUTH"(24"X12") M1-4 "US 13"(24"X24") M6-1 "right arrow"(21"X15")		į. 	
1. The intersection shall continue to operate in a NEMA six-phase, fully-actuated mode, with the US 13 (BUS.) (Fruitland Blvd) approaches running concurrently. The Exclusive/Permissive left turn phases for northbound and southbound shall remain in operation. The proposed padastrian phase across the porth lag shall have			GUIDE SHIELD ASSEMBLY (36"x75") pole mounted. M3-3 "SOUTH"(24"X12")	1 EA	PHASE 1 & CHANGE	5
remain in operation. The proposed pedestrian phase across the north leg shall have countdown pedestrian signal heads with audible pushbuttons. The Main Street approaches shall continue to operate a side street split phase.			M3-3 "SDUTH"(24"X12") M1-4 "US 13"(36"X36") M6-1 "dog leg left arrow"(30"X24")		PHASE 1 &	
2. A full-traffic-actuated, proposed eight-phase controller with video interface, APS Central Control Unit and all necessary equipmentg housed in a NEMA size "6" base-mounted cabinet shall be installed at this intersection,			GUIDE SHIELD ASSEMBLY (24"x51") pole mounted. M3-3 "SOUTH"(24"X12")	1 E.A	1 & 6 CHAN PHASE 2 &	
3. SHA Forces signal shop shall install APS control unit into controller cabinet. The Contractor shall deliver the Central Control Unit and audible pushbuttons to the			M3-3 "SUUTH"(24"X12") M1-4 "US 13"(24"X24") M6-1 "right arrow"(21"X15")		2 & 5 CHAN	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
SHA Forces Signal Shop for testing and programming. III. SPECIAL NOTES		В.	EQUIPMENT TO BE FURNISHED AND INSTALLE	D BY THE CONTRACTOR	PHASE 2 & 2 & 6 CHAN	
1. The Contractor shall be responsible for terminating all signal cables, including interconnect, to the appropriate terminals and shall properly label each cable.		ITEM NO-	DESCRIPTION	QUANTITY	PHASE 3 3 CHANGE	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
label each cable. 2. All controller cabinet wiring will be performed by the S.H.A. Signal Shop Contact Mr. Ed Rodenhizer at (410) 787–7652 seventy—two hours in		1003	Maintenance of traffic per assignment.	3 EA	PHASE 4	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
advance of intended work.		2002	Test Pit Excavation	9 C.Y.	4 CHANGE PHASE 4 AL	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
3. Upon completion of this project, the Contractor shall notify Mr. Robert Snyder at (410) 787–7631 to arrange for the phone line installation. The Contractor is to provide Mr. Robert Snyder with the nearest street address, zip code and phone number.		5005	Removal of existing permanent pavement line markings	350 L.F.		/ COUNTDOWN R R R R R R R R R $\frac{G}{4-G-}$ $\frac{G}{4-G-}$ G FL/DW FL/DW $\frac{1}{1}$
4. APS will function as follows: FOR US 13 (BU) (FRUITLAND BLVD)		5006	12" white heat applied permanent preformed thermoplastic pavement	500 L.F.	PHASE 4 AL PRE-EMPT 1	
a When pedestrian locates and presses pushbutton for an extended time, the pushbutton unit will be "Wait to cross Fruitland at Main."		5007	marking. 24" white heat applied	120 L.F.	PRE-EMPT 1	CHANCE Y Y Y Y Y R R R R R DW DW T
b. When WALK phase begins, the message will be a rapid tick which will last for the duration of the WALK phase.		2001	permanent preformed thermoplastic pavement marking.		PRE-EMPT 2 PRE-EMPT 2	
		6001	Standard type A combination curb and gutter 12" gutter pan	501 L.F.	FLASHING OPERATION	FL/Y FL/Y FL/Y FL/Y FL/Y FL/R FL/R FL/R FL/R FL/R DARK DARK
The contact persons for District #1 are as fol Mr. Gene Cofiell	Mr. Ed Rodenhizer	6002	8" depth. 5" concrete sidewalk.	930 S.F.	L <u></u>	WIRING DIAGRAM
Assistant District Engineer - Traffic Phone: (410) 677-4040	Chief, Traffic Signal Operations 410-787-7652	6003	Detectable warning surface for curb ramps	100 S.F.		EXISTING OVERHEAD FIRE HOUSE PRE-EMPTION CABLE
Mr. Wayne Weichmann Assistant District Engineer — Maintenance Phone: (410) 677—4010	Mr. Sonny Bailey Chief Sign Shop	8001	2 wire Central Control unit	1 EA .		- A - H - N - O - ₹X DP&L
	410-787-7670	8003 8007	8" LED signal head section. Audible/tactile pedestrian	12 EA 2 EA		A-H,N,O, P,Q,R,S 46266 91563
Mr. Bruce Poole		8007	pushbutton station & signs.			CC PS PS
Assistant District Engineer - Utility Phone: (410) 677-4082	The power company representative is:	8008	Breakaway Pedestal pole (Any size)	2 EA	EXISTING OVERHEAD 12-PA INTERCONECT CABLE TO MD 513	AIR dd PD DP&L 146265
Mr. Richard L. Daff, Sr. Chief, Traffic Operations Division Phone: (410) 787–7630	Rodney Bain Delmarva 2530 N. Salisbury Blvd	8013	LED 16" countdown pedestrian signal head.	2 EA	IO MD 313	91571 N.P.bb
	Salisbury, MD 21802 Phone: 410 860–6242	8020	Non-invasive detector (any length) lead-in cable up to 1000'.	4 EA		T-Z,aa, bb,dd,ee // P
EQUIPMENT LIST		8021	Remove and dispose of material & equipment per assignment.	1 EA		// N [*] .
A. EQUIPMENT TO BE SUPPLIED BY S.H.,	A	8023	Twin mast arm pole & 50'/50' mast arms any "T"	2 EA		$J \longrightarrow R$ $R, \overline{S}, \overline{U}, \overline{V}, \overline{X}, Y, \overline{Z}, \overline{a} \overline{a}, \overline{b} \overline{b}$ F, G, L
ITEM NO. DESCRIPTION	QUANTITY	8025	dimension. Video detection camera &	4 EA		$R \longrightarrow B$ $F : C : C : C : C : C : C : C : C : C : $
9042 Controller ASC II with telemetry 9044 Controller cabinet, size "6"	1 EA	8030	cable up to 500'	235 L.F.	B•R	Z, ac
9086 Video detection interface equipment: 1-4 cameras	1 EA	8030	reroute cable.		C- 	Z, aq Z, aq Z, aq Z, aq
(To be installed by signal shop).	£• 135 SE	8032	Schedule 80 rigid PVC conduit up to 4" - bored.	750 L.F.	MIRING KEY	/ //
9570 Sheet aluminum signs to consist o- (ground mount)		8034	Schedule 80 rigid PVC conduit up to 4" - trenched.	1200L.F.	TO 7-CONDUCTOR ELECTRICAL E CABLE (NO. 14 A.W.G) X B,C,R,T,bb-	D-0,0,bb
W16-7P(L) "arrow (symbolic)" diagonal sign, (24" x 12") pole mounted.	U EA	8035 8036	Wood sign supports up to 4"x6", Install overhead or ground	225 L.F. 179 S.F.		S K
S1-1 "SCHOOL" sign, (36" x 36") ground mounted.	6 EA		mounted sign (including hardware).		J K L 5-CONDUCTOR ELECTRICAL M CABLE (NO. 14 A.W.G)	κ ⊸
R2-1 "YIELD" sign, (36" x 36" x 36") ground mour	2 EA nted.	8038	No. 6 AWG stranded bare copper ground wire.	550 L.F.		
R5-2 (mod) "No Truck (SYMBOL TRUCKS OVER TWO AXLES")/NO 2 EA	8041	Metered service pedestal embedded.	1 EA		u ,Q,bb
(36" x 36") ground mounted. Sheet aluminum signs to consist o		8043	Electrical cable 1-conductor No. 4 AWG THHN/THWN.	60 L.F.	R 4-CONDUCTOR OPTICOM CABLE	
(mast arm or pole mount) D-3(1) "Main St." sign	2 EA	8045	Furnish and install electrical handhole.	11 EA	CONTROL CABLE (CAMERA TO V CONTROLLER) UP TO 500'	STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION
(variable x 16") dual faced 9571 mast arm.		8046	Discriminator module, 4 channel No. 764	1 EA	NON-INVASIVE DETECTOR	STATE HIGHWAY ADMINISTRATION
D-3(1) "Fruitland Blvd," sign (variable x 16") dual faced mast arm,	n 1 EA	8048 8049	Opticom #721 detector eye. 3 inch diameter PVC conduit	2 EA 200 L.F.	Z PROBE SET LEAD-IN (1000')	U.S 13 (BUS.) (FRUITLAND BLVD)
Pedestrian education R10~3(1) 2 EA (Note: Sign to read "PUSHBUTTON TO CROSS FRUITLAND BOULEVARD")		8050	schedule 80, riser 12" LED signal head section.	36 EA	bb-STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)	AND MAIN STREET.
		8051	Furnish and install 4 conductor	550 L.F.	CABLE (NO. 4 A.W.G.)	FRUITLAND, MARYLAND GENERAL INFORMATION SHEET
GUIDE SHIELD ASSEMBLY (36"x75") pole mounted. M3-1 "NORTH"(24"X12")	1 EA	8054	opticom cable. Electrical cable -	300 L.F.	dd- RELOCATED EXISTING OVERHEAD 12-PAIR INTERCONNECT CABLE	REVISION "C" SCALE NONE DATE 2/3/09 CONTRACT NO. XX4435185
M3-1 "NORTH"(24"X12") M1-4 "US 13"(36"X36") M6-1 "dog leg left arrow "(30"X24")		8056	2 conductor (No. 14 AWG). Electrical cable -	375 L.F.	ee- RELOCATED EXISTING OVERHEAD FIRE HOUSE PRE-EMPTION CABLE	DESIGNED BY James Allen Jr. COUNTY WICOMICO
		8057	5 conductor (No. 14 AWG). Electrical cable –	1800L.F.	PD - PROPOSED PHONE DROP PS - PROPOSED UNDERGROUND SERVICE	DRAWN BY James Allen Jr. LOGMILE 22B01302.08
		8065	7 conductor (No. 14 AWG). Install controller and cabinet	1 EA	PS-PROPOSED UNDERGROUND SERVICE TO BE INSTALLED BY DELMARVA	STREET TRAFFIC STUDIES, LTD. 400 Crain Hwy., N.W. Glen Burnle, MD 21061 CHECKED BY TIMS NO. J120 F.A.P. NO TOD NO
		COUD	base mount.	ı LA	. + - GROUND ROD	Ph (410) 590-5500 Fax (410) 590-6637 5602BGI.DGN T-190 TS NO.1831C DRAWING NO. 2 OF 2 SHEET NO. OF
	<u> </u>					PLOTTED: MONDAY, MAY 04, 2009 AT 10:21 AM FILE: J:\DATA\J120\STS PSE MYLAR SUBMITTAL 4.16.09\5602BGI.DGN